

WHAT IS CLAIMED IS:

Sub A1 1. A golf ball including a core comprising one or more layers formed by crosslinking a rubber composition, and a cover comprising one or more layers formed from a resin composition, wherein said golf ball has:

- an amount of compressive deformation of from 2.5 mm to 4.0 mm when measured with applying an initial load of 10 kgf to a final load of 130 kgf;
- a Shore D hardness of the outermost layer of said cover being from 58 to 72; and
- a percentage of the number of dimples having a contour length of greater than or equal to 11.6 mm occupied in total number of numerous dimples formed over the surface thereof of greater than or equal to 50%.

Sub A2 2. The golf ball according to claim 1 wherein the amount of compressive deformation of the core is in the range from 3.0 mm to 6.0 mm when measured with applying an initial load of 10 kgf to a final load of 130 kgf.

3. The golf ball according to claim 1 wherein at least one layer of the core is formed by crosslinking a rubber composition comprising: 100 parts by weight of a base rubber predominantly containing polybutadiene, from 15 parts to 40 parts by weight of a co-crosslinking agent predominantly containing a zinc salt or magnesium salt of acrylic acid or methacrylic acid; from 0.1 parts to 3.0 parts by weight of an organic peroxide; and 0.1 parts to 1.5 parts by weight of a sulfur compound.

4. The golf ball according to claim 3 wherein said sulfur compound is one or more compound selected from disulfides, thiophenols and thiocarboxylic acids, and metal salts thereof.

5. The golf ball according to claim 1 wherein the initial velocity in accordance with a flywheel method of said golf ball, which was measured pursuant to USGA rules, is greater than or equal to 255.0 ft/s.

6. The golf ball according to claim 1 wherein the total distance measured pursuant to ODS rules established by USGA is greater than or equal to 285 yards.

Add A2